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# elf atochem

#### ELF ATOCHEM NORTH AMERICA, INC.

900 First Avenue, P.O. Box 1536 King of Prussia, PA 19406-0018

Tel: 215-337-6500

October 12, 1992



8EHQ-92-12671

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**CERTIFIED MAIL** 

RETURN RECEIPT REQUESTED

Document Processing Center (TS-790)
Office of Toxic Substances
U.S. Environmental Protection Agency
401 M St., S.W.
Washington, D.C. 20460

Attn: Section 8(e) Coordinator (CAP Agreement)

RE: Report Submitted Pursuant to the TSCA Section 8(e)

Compliance Audit Program

CAP Identification Number: 8ECAP-0026

Dear Sir/Madam:

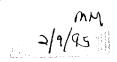
Pursuant to the Toxic Substances Control Act (TSCA) Section 8(e) Compliance Audit Program and the Agreement for TSCA Section 8(e) Compliance Audit Program (CAP Agreement) executed by Elf Atochem North America Inc. (Atochem) and Environmental Protection Agency (EPA), Atochem is submitting the enclosed oral  $LD_{50}$  determination study to the EPA. This study does not involve effects in humans.

Nothing in this letter or the enclosed study is considered confidential business information of Atochem.

The enclosed study provides information on the chemical tetraethyltin. Its exact chemical name is tetraethyl stannane and its CAS number is 597-64-8.

The title of the enclosed study is <u>Acute Oral Toxicity Study in Rats With Tetraethyltin</u>. The following is a summary of the adverse effects observed in this study.

Tetraethyltin (as a 1% v/v suspension in propylene glycol and corn oil) was administered by gavage to groups of five male albino rats at dosages ranging from 0.5 to 32 mg/kg. The oral  $LD_{50}$  was determined to be 6.25 mg/kg. Trembling, lack of muscular coordination and raspy respiration were noted at all dosages.





TSCA CAP Tetraethyltin October 12, 1992 Page Two

Atochem previously submitted a TSCA Section 8(e) notice on tetraethyltin. The submission was made July 31, 1992; we have not been notified by EPA of the EPA Document Control Number for this submission.

Further questions regarding this submission may be directed to me at 215 337-6892.

Sincerely,

C.H. Farr, PhD, DABT Manager, Product Safety and Toxicology

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**Enclosures** 

PRINCETON PIKE, P. O. BOX 57

PRINCETON, N. J. 08540

TEL.: (609) 924-9658

Project #20-178

7-444

Acute Oral Toxicity Study in Rats
with Tetraethyltin

Conducted for

M & T Chemicals, Inc. Rahway, New Jersey

Submitted by

AME Associates Princeton, New Jersey

CAS: 597-64-1

### A. M. E. ASSOCIATES P.O. BOX 57 PRINCETON, N. J. 08540

December 23, 1966

## PROJECT #20-178

SPONSOR: M & T CHEMICALS, INC.

SUBJECT: Acute Oral Toxicity Study in Rats with M & T Chemicals,

Inc., Tetraethyltin

## OBJECTIVE

To study the acute oral toxicity in rats of M & T Chemicals, Inc., Tetraethyltin when administered (by means of a stomach tube) as a 1% v/v suspension in propylene glycol and corn oil.

#### MATERIAL

Tetraethyltin supplied by M & T Chemicals, Inc., for use in this study prepared as a 10% v/v suspension in propylene glycol and further diluted to yield a concentration of 10 mg/ml.

#### PROCEDURE

A group of twenty young, adult, male, albino rats of the Sprague-Dawley Strain weighing approximately 200-250 grams was employed for use in this study. The animals were divided into four subgroups of five animals each and fasted for twenty-four hours prior to intubation.

The experimental material was placed in a glass syringe and introduced through the esophagus into the stomach with a stainless steel catheter.

Animals on the same dosage level were then placed in a common cage with free access to food and water. The cages employed had wire mesh floors suspended above the droppings and were kept in temperature controlled rooms at 72° F  $^{\pm}$  2° F. Light was furnished for eight out of every twenty-four hour period.

The animals were observed daily for a fourteen day period and deaths were recorded.

The LD<sub>50</sub> was calculated using the Thompson Moving Average Method (Biometrics, September, 1952, Vol. 8, No. 3).

# RESULTS

Dosage	No. of		Number and Day of Death									Total				
mg/kg	Animals	1	2	3	4	5	6	7	8	9	10	11	12	13	14	S* D* *
0.5	5	0	o	0	0	О	o	0	0	0	0	0	0	0	0	5 0
2	. 5	O	0	0	0	0	0	0	0	0	0	0	0	0	0	5 0
3	5	0	o	0	o	О	0	o	2	1	2	0	0	0	o	0 5
32	5	0	0	0	o	<i>!</i> <b>±</b>	0	0	o	0	1	0	0	0	0	0 5

<sup>\*</sup>Survivors

<sup>\*\*</sup>Deaths

#### OBSERVATIONS

At 8 mg/kg and 32 mg/kg dosage levels, all animals exhibited extreme depression, excessive trembling, lack of muscular coordination, raspy respiration, diarrhea and salivation approximately two hours after intubation. Although deaths did not occur until day 5 at 32 mg/kg and day 9 at 3 mg/kg, all animals remained in the comatose state and showed the above symptoms until their deaths. The effects noted above were also evident in the 0.5 mg/kg and 2 mg/kg dosage level at a slightly lesser degree and all animals recovered fully by day 3.

# CONCLUSION

The oral LD  $_{50}$  of M & T Chemicals, Inc., Tetraethyltin is 6.25 mg/kg with 95% confidence limits of 2 mg/kg and 8 mg/kg.

SUBMITTED BY

AME ASSOCIATES

Russell S. Edmonds, V.M.D.

President



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

C. H. Farr, PhD, DABT Manager, Product Safety and Toxicology Atochem North America, Inc. 900 First Avenue P.O. Box 1536 King of Prussia, Pennsylvania 19406-0018

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

APR 1 8 1995

EPA acknowledges the receipt of information submitted by your organization under Section (e) of the Toxic Substances Control Act (TSCA). For your reference, copies of the first page(s) of your submission(s) are enclosed and display the TSCA §8(e) Document Control Number (e.g., 8EHQ-00-0000) assigned by EPA to your submission(s). Please cite the assigned 8(e) number when submitting follow-up or supplemental information and refer to the reverse side of this page for "EPA Information Requests".

All TSCA 8(e) submissions are placed in the public files unless confidentiality is claimed according to the procedures outlined in Part X of EPA's TSCA §8(e) policy statement (43 FR 11110, March 16, 1978). Confidential submissions received pursuant to the TSCA §8(e) Compliance Audit Program (CAP) should already contain information supporting confidentiality claims. This information is required and should be submitted if not done so previously. To substantiate claims, submit responses to the questions in the enclosure "Support Information for Confidentiality Claims". This same enclosure is used to support confidentiality claims for non-CAP submissions.

Please address any further correspondence with the Agency related to this TSCA 8(e) submission to:

Document Processing Center (7407)
Attn: TSCA Section 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Washington, D.C. 20460-0001

EPA looks forward to continued cooperation with your organization in its ongoing efforts to evaluate and manage potential risks posed by chemicals to health and the environment.

Sincerely,

Terry R. O'Bryan Risk Analysis Branch

Enclosure

12671A



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# Triage of 8(e) Submissions

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ACUTE ORAL TOXICITY IN MALE RATS IS OF HIGH CONCERN BASED ON AN LD50 OF 6.25 MG/KG. DOSAGES (GAVAGE) AND MORTALITY DATA ARE AS FOLLOWS: 0.5 MG/KG (0/5); 2 MG/KG (0/5); 8 MG/KG (5/5); AND 32 MG/KG (5/5). CLINICAL SIGNS INCLUDED DEPRESSION, EXCESSIVE TREMBLING, MUSCULAR INCOORDINATION, SALIVATION, RASPY RESPIRATION, AND COMA.